



GENERAL NOTES

UNLESS OTHERWISE NOTED, TYPE A REFLECTIVE SHEETING SHALL BE USED FOR TYPE II BARRICADES, DRUMS AND VERTICAL PANELS. SHEETING 1.

ONLY NON-METALLIC DRUMS OR TYPE II BARRICADES SHALL BE USED FOR LONG TERM CLOSURES. THESE DEVICES SHALL NOT BE INTERMIXED WITHIN AN INDIVIDUAL STRING OF DEVICES. CONES MAY BE USED FOR SHORT TERM CLOSURES (FROM SURRISE TO 1 HOUR BEFORE SUNSET) VERTICAL PANELS ARE TO BE USED AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. TYPE III BARRICADES ARE INTENDED FOR ROAD CLOSURES AND SHALL NOT BE USED FOR DELINEATION OR CHANNELIZATION.

ALL HEIGHTS SHOWN ARE MEASURED ABOVE THE PAVEMENT SURFACE. DEVICES PLACED ADJACENT TO A TRAFFIC LANE IN AN EXCAVATED AREA 6 INCHES OR DEEPER SHALL HAVE LEGS EXTENDED TO PROVIDE THE DESIRED HEIGHT ABOVE THE PAVEMENT HEIGHT AS SHOWN.

ALL BARRICADES AND VERTICAL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE AND REFLECTORIZED ORANGE STRIPES SLOPING DOWNWARD AS SHOWN AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS. TYPE II BARRICADES SHALL BE STRIPED ON BOTH SIDES. TYPE III BARRICADES SHALL BE STRIPED ON BOTH SIDES WHERE TRAFFIC APPROACHES FROM EITHER DIRECTION. VERTICAL PANELS PLACED ON THE OUTSIDE OF CURVES SHALL BE STRIPED ON BOTH SIDES.

DRUMS SHALL BE NONMETALLIC AND HAVE ALTERNATING REFLECTORIZED ORANGE AND REFLECTORIZED WHITE HORIZONTAL CIRCUMFERENTIAL STRIPES AS SHOWN. THERE SHALL BE AT LEAST TWO ORANGE AND TWO WHITE STRIPES ON EACH DRUM. IF SHALL BE A LEAST IND ORANGE AND IND WHITE STRIPES ON EACH DROWN. IF NONREFLECTIVE SPACES ARE LEFT BETWEEN THE ORANGE AND WHITE STRIPES, THEY SHALL BE NO MORE THAN 2" IN WIDTH. ALL NON-REFLECTORIZED PORTIONS OF THE DRUM SHALL BE ORANGE OR WHITE. DRUMS MAY BE SLIGHTLY CONICAL IN SHAPE AND HAVE ONE OR MORE FLAT SURFACES TO MINIMIZE ROLLING WHEN HIT. DRUMS MAY BE WEIGHTED INTERNALLY WITH JUST ENOUGH SAND, OR OTHER MATERIAL TO PROVIDE STABILITY.

FRAMES FOR TYPE II BARRICADES SHALL BE NON-METALLIC, PROVIDE A STABLE SUPPORT, AND HAVE NO RIGID STAY BRACING FOR "A" FRAME DESIGNS. THE PREDOMINANT COLOR FOR NON-REFLECTORIZED BARRICADE COMPONENTS SHALL BE BARRICADES

TYPE III BARRICADES SHALL NOT HAVE ANY VERTICAL OR SLOPING SUPPORTS HEAVIER THAN $4" \times 4"$ LUMBER, $2" \times 2"$ STEEL TUBING, OR $2" \times 2"$ STEEL ANGLES. SIGNS SHALL BARRICADES NOT BE ERECTED ON TYPE III BARRICADES.

8. MINIMUM WEIGHT SHALL BE 7 LBS. FOR 28" HIGH CONES CONES WITH A MINIMUM OF 60 PERCENT OF THE TOTAL WEIGHT IN THE BASE.

9. BARRICADES MAY BE IDENTIFIED WITH A LEGEND THAT DOES NOT EXCEED ONE INCH IN HEIGHT ON A NON-REFLECTIVE SURFACE IN A LOCATION NOT VISIBLE TO TRAFFIC.

10. WEIGHTS OF CONCRETE, STONE OR BRICK WILL NOT BE ALLOWED AND ALL WEIGHTS OTHER THAN SANDBAGS MUST BE RIGIDLY ATTACHED TO THE BARRICADES AS CLOSE TO THE GROUND AS POSSIBLE. NO WEIGHTS WILL BE ALLOWED ON THE TOP RAIL OF BARRICADES. SANDBAGS MAY BE PLACED ON THE BARRICADE LEGS, OVER THE STRIPED BOTTOM RAILS NOT FACING TRAFFIC OR SUSPENDED FROM THE BARRICADE RAIL OR FRAME IN SUCH A MANNER SO THAT THE BULK OF THE SAND IS AT LEAST 18" BELOW THE WEIGHTS TOP OF THE BARRICADE

11. WARNING LIGHTS ON BARRICADES, DRUMS OR VERTICAL PANELS SHALL BE MOUNTED ABOVE THE TOP OF THE DEVICE TO THE SIDE ON WHICH TRAFFIC WILL PASS AND SHALL NOT OBSCURE ANY REFLECTORIZED PORTION OF THE DEVICE. LIGHTS

12. VERTICAL PANELS MAY BE EITHER POST MOUNTED, FRAME SUPPORTED OR ATTACHED TO THE TOP OF A BARRIER. POST MOUNTED PANELS SHALL BE FIRMLY ATTACHED TO LIGHT WEIGHT METAL POSTS WITH A TOP HEIGHT OF 48" ABOVE THE PAVEMENT SURFACE, OR AS PANELS APPROVED BY THE ENGINEER.

13. THE "STOP" FACE SHALL CONSIST OF WHITE LETTERS AND BORDER ON A RED REFLECTORIZED BACKGROUND. THE "SLOW" FACE SHALL CONSIST OF BLACK LETTERS AND BORDER ON A FLUORESCENT ORANGE REFLECTORIZED BACKGROUND. AREAS OUTSIDE THE SIGN BORDERS SHALL BE LIGHT BLUE OR BLACK. ALL COLORS AND LETTERS SHALL MEET APPLICABLE FEDERAL STANDARDS. FLAGGER PADDLE FACE

14. THE SHAFT SHALL CONSIST OF TWO SECTIONS JOINED BY A COUPLING LOCATED 60 INCHES FROM THE BOTTOM OF THE SHAFT. THE PORTION OF THE STAFF WITHIN THE SIGN FACE SHALL MATCH THE SIGN COLORS. FLAGGER PADDLE SHAFT

15. THE SIGN BASE MATERIAL SHALL BE 0.08 INCH THICK ALUMINUM. THE SIGN SHALL BE ATTACHED TO THE STAFF WITH RUST RESISTANT HARDWARE. FLAGGER

16. THE SIGN SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE USED BY THE FLAGGER PADDLE USAGE FLAGGER IN LIEU OF FLAGS OR OTHER SIGNALING DEVICES. SIGN MOUNTING

17. CONSTRUCTION SIGNS MOUNTED FOR SHORT TERM CLOSURES, LESS THAN 12 HOURS, MAY BE PLACED ON PORTABLE STANDS AS SHOWN. CONSTRUCTION SIGNS MOUNTED FOR NIGHTIME OR MOUNTED LONGER THAN A SHORT TERM CLOSURE SHALL BE GROUND,

18. MOUNTING OF ANY SIGNS ON TYPE III BARRICADES SHALL NOT BE ALLOWED.

19. ALL MOT DEVICES AND SIGN SUPORTS SHALL BE CERTIFIED AS MEETING THE REQUIRED TEST LEVEL OF NCHRP REPORT 350.

leff Viler DATE 5-28-2004 APPROVED

INSTALLATION





THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515

REVISIONS			STANDARD SD 04-10A	
NO.	DATE	DESCRIPTION		DRAWING NO.
Δ	6/1/04	CORRECTIONS	STANDARD PROTECTIVE DEVICES	E1
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